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--3. (Amended) Leak detector as claimed in claim 1, wherein each of the frames (3, 4) comprises an outer (71, 72) and an inner subframe (73, 74) and that the particular outer subframe (71, 72) is equipped with a recess (75, 76) in which is disposed the particular inner subframe (73, 74).

A2

5. (Amended) Leak detector as claimed in claim 1, wherein the lower frame (4) is stayed on the margin (7) of a plate-form bottom (8).

6. Leak detector as claimed in claim 1 wherein as a support of the upper frame (3) is provided a steel profile (81) encompassing the frame.

7. Leak detector as claimed in claim 6 wherein the upper frame (3) is fastened on the steel profile (81) so as to float.

8. Leak detector as claimed in claim 6, wherein the steel profile (81) with the test chamber (80) closed also partially encompasses the lower frame (4).

A3

10. Leak detector as claimed in claim 8, wherein the frames (3, 4) and the steel profile (81) are formed circularly.

11. Leak detector as claimed in claims 1, wherein the frames (3, 4) are comprised of synthetic material, preferably polyamide.

12. Leak detector as claimed in claim 1, wherein it is equipped with a sniffer (48) which can be deposited in a holder (54).

A4

14. Leak detector as claimed in claim 1, wherein the film (6) of the lower frame (4) is equipped with a central connection port (18) and a line (19) is detachably connected with the connection port (18).